(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



I INDIA BINGBON I BIRING NAN BANK BANK BANK IN IN BANK BING BIRIN BING BING NAN BIRING NAN BANK BANK INDI NAN

(43) International Publication Date 7 July 2005 (07.07.2005)

PCT

(10) International Publication Number WO 2005/062552 A1

(51) International Patent Classification⁷:

H04L 12/56

(21) International Application Number:

PCT/SE2003/002074

(22) International Filing Date:

23 December 2003 (23.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): TELE-FONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

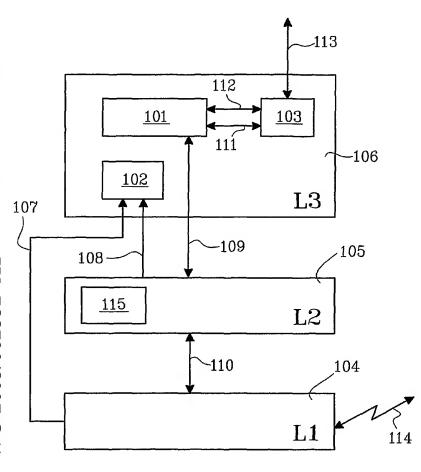
(75) Inventors/Applicants (for US only): AXELSSON, Leif [SE/SE]; Askims Högalid 20, S-436 51 Hovås (SE). HONDA, Yoshio [JP/JP]; 3-32-12-206 Daita Setagaya-ku,

Tokyo 155-0033 (JP). **URABE, Kenzo** [JP/JP]; 38-3-606 Mori-no-dai, Midori-ku, Yokohama, Kanagawa 226-0029 (JP). **ODA, Toshikane** [JP/JP]; 3-8-19 Hiroo, Shibuya-ku, Tokyo 150-0012 (JP).

- (74) Agent: VALEA AB; Lindholmspiren 5, vån 6, S-417 56 Göteborg (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: PREDICTIVE AD-HOC



(57) Abstract: The present invention relates to a system for efficient routing in a multiple hop wireless communication network comprising a plurality of network nodes is presented. The system comprises (3001)for acquiring quality information indicating link status between said infrastructure nodes, means (3002) for using said link quality information in a route determination process in the infrastructure nodes using a predictive procedure, said link quality information containing information about a time varying information of said link status; and said predictive procedure uses said time varying information of link status in the predictive procedure; and routing means (101) for routing data packets according to a determined route.

WO 2005/062552 A1



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

with international search report